

IN THE CLAIMS

Please amend claims 1-9, 11-22, 24-25, and 40-62 as follows below.

Please add new claims 63-69 that follow below.

The following listing of claims replaces all prior versions, and listings, of claims in the application:

MARKED UP CLAIMS

1 1. (Currently Amended) A fiber optic module
2 comprising:
3 a push-actuator movably coupled to the fiber optic
4 module, the push-actuator to move inward into the fiber
5 optic module and release the fiber optic module from a
6 cage assembly in response to the push-actuator being
7 pushed; and
8 one or more electro-optic transducers within the
9 fiber optic module to convert optical signals into
10 electrical signals or electrical signals into optical
11 signals.

1 2. (Currently Amended) The fiber optic module of claim
2 1, wherein [[,]]
3 the fiber optic module is ~~an SFP~~ a small form
4 pluggable (SFP) fiber optic module and the cage assembly
5 is an SFP cage assembly.

1 3. (Currently Amended) The fiber optic module of claim
2 1. wherein [[,]]
3 the push-actuator is a push button.

1 4. (Currently Amended) The fiber optic module of claim
2 1. wherein [[,]]
3 the push-actuator is a kick actuator.

1 5. (Currently Amended) The fiber optic module of claim
2 1. wherein [[,]]
3 the push-actuator includes one or more grooves to
4 slideably ~~engage~~ couple to the fiber optic module.

1 6. (Currently Amended) The fiber optic module of claim
2 1. wherein [[,]]
3 the push-actuator slides inward to release the fiber
4 optic module from the cage assembly.

1 7. (Currently Amended) The fiber optic module of claim
2 1. wherein [[,]] the push-actuator includes
3 one or more ramps to release ~~which cause~~ the fiber
4 optic module ~~to be released~~ from the cage assembly ~~when~~
5 in response to the push-actuator [[is]] being pushed.

1 8. (Currently Amended) The fiber optic module of claim
2 1. further comprising:
3 a second actuator having a first end with one or
4 more ramps and a second end opposite the first end along

5 ~~one side~~, the push-actuator to couple to the second end
6 and slide ~~causes~~ the second actuator to ~~slide to~~ release
7 the fiber optic module from the cage assembly.

1 9. (Currently Amended) The fiber optic module of claim
2 1, wherein [[,]]
3 the push-actuator includes
4 an orientation indicator to indicate the fiber
5 optic module which the push-actuator releases.

1 10. (Previously Presented) A fiber optic module
2 comprising:
3 a push-actuator to release the fiber optic module
4 from a cage assembly, the push-actuator includes
5 a push tab,
6 a shaft coupled to the push tab at a first end,
7 and
8 a hook coupled to a second end of the shaft;
9 and
10 one or more electro-optic transducers to convert
11 optical signals into electrical signals or electrical
12 signals into optical signals.

1 11. (Currently Amended) The fiber optic module of claim
2 1, wherein [[,]]
3 the push-actuator is located at a bottom side of the
4 fiber optic module.

1 12. (Currently Amended) The fiber optic module of claim
2 1, further comprising:

3 a nose having a nose grip to pull out on the fiber
4 optic module.

1 13. (Currently Amended) A ~~[[The]]~~ fiber optic module ~~of~~
2 ~~claim 1 further~~ comprising:

3 a push-actuator movably coupled to the fiber optic
4 module to release the fiber optic module from a cage
5 assembly;

6 one or more electro-optic transducers within the
7 fiber optic module to convert optical signals into
8 electrical signals or electrical signals into optical
9 signals; and

10 a rigid pull-tab rigidly coupled to the fiber optic
11 module, the rigid pull-tab to pull and withdraw ~~disengage~~
12 the fiber optic module from the cage assembly.

1 14. (Currently Amended) The fiber optic module of claim
2 13, wherein ~~[[,]]~~

3 the rigid pull-tab includes a shield to contain EM
4 radiation.

1 15. (Currently Amended) The fiber optic module of claim
2 13, wherein ~~[[,]]~~

3 the rigid pull-tab is located at a top side of the
4 fiber optic module and the push-actuator is located at a
5 bottom side of the fiber optic module.

1 16. (Currently Amended) The fiber optic module of claim
2 13, wherein ~~[[,]]~~

3 the rigid pull-tab is located at a bottom side of
4 the fiber optic module and the push-actuator is located
5 at a bottom side of the fiber optic module.

1 17. (Currently Amended) The fiber optic module of claim
2 13, wherein [[,]]
3 the rigid pull-tab is coupled to ground.

1 18. (Currently Amended) The fiber optic module of claim
2 13, wherein [[,]]
3 the rigid pull-tab includes
4 a pull grip having dimples to prevent slippage.

1 19. (Currently Amended) The fiber optic module of claim
2 13, wherein [[,]]
3 the rigid pull-tab is formed of a conductive
4 material.

1 20. (Currently Amended) The fiber optic module of claim
2 13, wherein [[,]]
3 the rigid pull-tab is formed of a solid material.

1 21. (Currently Amended) The fiber optic module of claim
2 13, wherein [[,]]
3 the rigid pull-tab is formed of metal.

1 22. (Currently Amended) The fiber optic module of claim
2 13, wherein [[,]]
3 the rigid pull-tab is formed of a plastic.

1 23. (Previously Presented) A fiber optic module
2 comprising:
3 a push-actuator to release the fiber optic module
4 from a cage assembly;
5 a pull-tab to disengage the fiber optic module from
6 the cage assembly, the pull-tab includes
7 an arm to couple to the fiber optic module, and
8 a handle at an end of the arm for a user to
9 grab the pull-tab;
10 and
11 one or more electro-optic transducers to convert
12 optical signals into electrical signals or electrical
13 signals into optical signals.

1 24. (Currently Amended) The fiber optic module of claim
2 13, wherein [[,]]
3 the handle of the pull-tab has
4 a grip to grip the handle with one or more
5 fingers of the user.

1 25. (Currently Amended) The fiber optic module of claim
2 13, further comprising:
3 a nose having a nose grip to pull out on the fiber
4 optic module.

1 26. (Previously Presented) A fiber optic module
2 comprising:
3 a push-actuator to release the fiber optic module
4 from a cage assembly;

5 a pull-tab to disengage the fiber optic module from
6 the cage assembly, the pull-tab includes
7 a pull grip,
8 a lever arm coupled to the pull grip,
9 a shield coupled to the lever arm, and
10 grounding tabs coupled to the shield;
11 and
12 one or more electro-optic transducers to convert
13 optical signals into electrical signals or electrical
14 signals into optical signals.

1 27-39. (Cancelled)

1 40. (Currently Amended) . A fiber optic module
2 comprising:
3 means for converting optical signals into electrical
4 signals or electrical signals into optical signals; and
5 means for disengaging the fiber optic module from a
6 cage assembly by depressing a push button, the fiber
7 optic module including the push button.

1 41. (Currently Amended) The fiber optic module of claim
2 40, further comprising:
3 means for slideably engaging the means for
4 disengaging, the means for slideably engaging coupled to
5 the fiber optic module.

1 42. (Currently Amended) The fiber optic module of claim
2 40, further comprising:

3 means for withdrawing the fiber optic module from
4 the cage by pulling, the means for withdrawing coupled to
5 the fiber optic module.

1 43. (Currently Amended) The fiber optic module of claim
2 [[40]] 42, further comprising:

3 means for slideably engaging the means for
4 disengaging, the means for slideably engaging coupled to
5 the fiber optic module.

1 44. (Currently Amended) The fiber optic module of claim
2 40, further comprising:

3 means for indicating the fiber optic module which
4 the means for disengaging releases, the means for
5 indicating coupled to the fiber optic module.

1 45. (Currently Amended) The fiber optic module of claim
2 40, wherein [[,]]

3 the means for disengaging ~~the fiber optic module~~
4 includes [[,]]

5 means for lifting a latch to disengage the
6 fiber optic module from the cage assembly by
7 depressing the push button.

1 46. (Currently Amended) A method of disengaging a fiber
2 optic module from a cage assembly, the method comprising:

3 pushing a push-button of the fiber optic module to
4 release a latch; and

5 pulling a pull-tab of the fiber optic module to
6 disengage the fiber optic module from the cage assembly.

1 47. (Currently Amended) The method of claim 46, further
2 comprising:
3 determining if the latch has been released.

1 48. (Currently Amended) A method of engaging a fiber
2 optic module to a cage assembly, the method comprising:
3 inserting ~~[[the]]~~ a fiber optic module into an
4 opening in ~~[[the]]~~ a cage assembly, the fiber optic
5 module having a push button movably coupled thereto;
6 pushing the fiber optic module into the cage
7 assembly; and
8 determining if the fiber optic module is fully
9 inserted into the cage assembly by checking whether ~~[[a]]~~
10 the push button ~~coupled to~~ of the fiber optic module is
11 fully extended out from the fiber optic module.

1 49. (Currently Amended) ~~[[A]]~~ The method of claim 48,
2 further comprising:
3 pushing the fiber optic module into the cage
4 assembly if the push button is not fully extended out.

1 50. (Currently Amended) The fiber optic module of claim
2 10, wherein ~~[[,]]~~
3 the push-actuator is a push button.

1 51. (Currently Amended) The fiber optic module of claim
2 10, wherein ~~[[,]]~~
3 the push-actuator is a kick actuator.

1 52. (Currently Amended) The fiber optic module of claim
2 10_a wherein [[,]]
3 the push-actuator is located at a bottom side of the
4 fiber optic module.

1 53. (Currently Amended) The fiber optic module of claim
2 10_a further comprising:
3 a nose having a nose grip to pull out on the fiber
4 optic module.

1 54. (Currently Amended) The fiber optic module of claim
2 10_a further comprising:
3 a pull-tab to disengage the fiber optic module from
4 the cage assembly.

1 55. (Currently Amended) The fiber optic module of claim
2 23_a wherein [[,]]
3 the push-actuator is a push button.

1 56. (Currently Amended) The fiber optic module of claim
2 23_a wherein [[,]]
3 the push-actuator is a kick actuator.

1 57. (Currently Amended) The fiber optic module of claim
2 23_a wherein [[,]]
3 the push-actuator is located at a bottom side of the
4 fiber optic module.

1 58. (Currently Amended) The fiber optic module of claim
2 23_L further comprising:
3 a nose having a nose grip to pull out on the fiber
4 optic module.

1 59. (Currently Amended) The fiber optic module of claim
2 26_L wherein [[,]]
3 the push-actuator is a push button.

1 60. (Currently Amended) The fiber optic module of claim
2 26_L wherein [[,]]
3 the push-actuator is a kick actuator.

1 61. (Currently Amended) The fiber optic module of claim
2 26_L wherein [[,]]
3 the push-actuator is located at a bottom side of the
4 fiber optic module.

1 62. (Currently Amended) The fiber optic module of claim
2 26_L further comprising:
3 a nose having a nose grip to pull out on the fiber
4 optic module.

1 63. (New) The fiber optic module of claim 1, further
2 comprising:
3 a base portion of the fiber optic module under the
4 one or more electro-optic transducers, the push-actuator
5 moveably coupled to the base portion to move inward into

6 the fiber optic module and release the fiber optic module
7 from the cage assembly in response to being pushed.

1 64. (New) The fiber optic module of claim 8, wherein
2 the push-actuator includes a push button to be
3 pushed.

1 65. (New) The fiber optic module of claim 10,
2 further comprising:
3 a base portion of the fiber optic module under the
4 one or more electro-optic transducers, the push-actuator
5 moveably coupled to the base portion to move inward into
6 the fiber optic module and release the fiber optic module
7 from the cage assembly in response to being pushed.

1 66. (New) The fiber optic module of claim 65,
2 further comprising:
3 a second actuator having an end with one or more
4 ramps and an opening, the hook of the push-actuator mated
5 with the opening to couple the push-actuator and the
6 second actuator together, the push-actuator and the
7 second actuator to move together to release the fiber
8 optic module from the cage assembly.

1 67. (New) The fiber optic module of claim 11,
2 wherein
3 with the fiber optic module inserted into the cage
4 assembly, the bottom side of the fiber optic module is
5 nearest to a printed circuit board upon which the cage
6 assembly is mounted.

1 68. (New) The fiber optic module of claim 12,
2 wherein
3 the push actuator is moveably coupled to a base
4 portion of the nose, and
5 the nose has one or more optical receptacles aligned
6 with the one or more electro-optic transducers.

1 69. (New) The fiber optic module of claim 68,
2 further comprising:
3 a pull-tab coupled to the nose, the pull-tab to pull
4 and withdraw the fiber optic module from the cage
5 assembly.